

# **Iowa Department of Natural Resources Voluntary Operating Permit**

**Name of Permitted Facility: MicroSoy Corporation**  
**Facility Location: 300 East MicroSoy Drive, Jefferson, Iowa 50129**  
**Air Quality Operating Permit Number: 07-VOP-001-M001**  
**Expiration Date: July 30, 2012**  
**Permit Renewal Application Deadline: January 30, 2012**

**EQ Number: 92-3822**  
**Facility File Number: 37-01-012**

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**Responsible Official**

**Jeff Kienast**  
**Plant Operations Manager**  
**300 E. MicroSoy Drive, Jefferson, IA 50129**  
**(515) 386-2100**

**Permit Contact Person for the Facility**

**Kirk Brant**  
**Operations Engineer**  
**300 E. MicroSoy Drive, Jefferson, IA 50129**  
**(515) 386-2100**

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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

**For the Director of the Department of Natural Resources**

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Douglas A. Campbell, Supervisor of Operating Permits Section

Date

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## Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulations
EP.....	emission point
EU.....	emission unit
EIQ.....	emissions inventory questionnaire
° F.....	degrees Fahrenheit
gr/dscf.....	grains per dry standard cubic foot
hp.....	horsepower
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
kW.....	kilowatts
lb/hr.....	pounds per hour
lb/MMBtu.....	pounds per million British thermal units
MMBtu/hr.....	million British thermal units per hour
MVAC.....	motor vehicle air conditioner
MWe.....	Megawatt electrical
NA.....	not applicable
NAAQS.....	National Ambient Air Quality Standards
NESHAP.....	National Emission Standards for Hazardous Air Pollutants
NSPS.....	New Source Performance Standards
ppmv.....	parts per million by volume
scfm.....	standard cubic feet per minute
SIC.....	standard industrial classification
SIP.....	State Implementation Plan
tpy.....	tons per year
USEPA.....	United States Environmental Protection Agency
VOP.....	voluntary operating permit

### **Pollutants**

CO.....	carbon monoxide
HAP.....	hazardous air pollutant(s)
PM <sub>10</sub> .....	particulate matter equal to or less than 10 microns in aerodynamic diameter
PM.....	particulate matter
NO <sub>x</sub> .....	nitrogen oxides
SO <sub>2</sub> .....	sulfur dioxide
VOC.....	volatile organic compound(s)

# I. Facility Description and Equipment List

Facility Name: MicroSoy Corporation

Permit Number: 07-VOP-001-M001

Facility Description: Soy Flake Production (SIC 2075)

## Equipment List:

Emission Point Number	Associated Emission Unit Number(s)	Associated Emission Unit Description	IDNR Construction Permit Number
EP 1a	Blue 1	Grain Handling/Color Sorting	91-A-085
EP 1b	Blue 2a	Conditioner, Stage 1	91-A-086
EP 1c	Blue 2b	Conditioner, Stage 2, Stage 3	91-A-087, 91-A-088
EP 2a	T-8, C-13, M-36	Grain Receiving – Surge Tank, Conveying, Screening	91-A-093-S3
EP 2b	Pink 1	Cracking and Dehulling	91-A-089-S1
EP 2c	Pink 4	Gravity Separation	91-A-094
EP 2d	Pink 2	Conditioning	91-A-090
EP 2e	Pink 3	Dehulling	91-A-091-S2
EP 3	M-24	Soybeans Dryer-Cooler	95-A-123-S2
EP 4	T-2A, T-2B, T-2E, T-2F	Grain Receiving	91-A-101-S1
EP 5	M36	Aspirator Separator	95-A-121-S1
EP 6	MAU	Building Heaters	Exempt, 22.1(2)"a"
EP 8	M-23B	Flaking/Rolling	96-A-809-S1
EP 9	P1	Fluid Bed Toaster	04-A-378-S1
EP 9a	P2	Fluid Bed Cooler	Vents inside
EP 10	CF 1	Packaging Equipment	Vents inside
EP 11	BS 1	Natural Gas Boiler	Exempt
EP 12	T-2C, T-2D	Storage of Split Beans	Exempt, 22.1(1)"w"
EP 13	EL	East Truck Loadout	Not required
EP 14	WL	West Truck Loadout	Not required
EP 15	ERP	East Receiving Pit	Not required
EP 16	WRP	West Receiving Pit	Not required
EP 17	E-1	East Surge Tank	Exempt, 22.1(1)"w"
EP 18	W-1	West Surge Tank	Exempt, 22.1(1)"w"

## II. Plant-Wide Conditions

Facility Name: MicroSoy Corporation

Permit Number: 07-VOP-001-M001

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.206

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### Permit Duration

The term of this permit is: Five (5) years

Commencing on: 07/31/2007

Ending on: 07/30/2012

Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.208.

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### General Emission Limits

*Unless specified otherwise in the Emission Point Specific Conditions, the following limitations apply to all emission points at this plant.*

Opacity (visible emissions): 40% opacity

Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO<sub>2</sub>): 500 parts per million by volume

Authority for Requirement: 567 IAC 23.3(3)"e"

### Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).

Authority for Requirement: 567 IAC 23.3(2)"a" (as revised 7/21/1999)

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"

### **Compliance Statement**

Based on the certification of compliance from MicroSoy Corporation and unless otherwise noted in Section III of this permit, MicroSoy Corporation is in compliance with all applicable requirements and shall continue to comply with such requirements. For those applicable requirements which become effective during the permit term, MicroSoy Corporation shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.206(1)"c"

### III. Emission Point-Specific Conditions

Facility Name: MicroSoy Corporation

Permit Number: 07-VOP-001-M001

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#### Emission Point ID Number: EP-1a

##### Associated Equipment

Emission Unit ID:	Blue 1
Emission Unit Description:	Grain Handling/ Color Sorting
Raw Material/Fuel:	Soybeans
Rated Capacity:	8 tons/hr
Control Equipment ID & Description:	M-8A Cyclone, M-9A Baghouse

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#### Applicable Requirements

##### Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM

Emission Limit(s): 4.03 lbs/hr, 0.07 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 91-A-085

Pollutant: PM<sub>10</sub>

Emission Limit(s): 4.03 lbs/hr, 8.06 tons/yr

Authority for Requirement: 567 IAC 22.206(1)

##### Operational Limits & Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.

**Reporting & Record keeping:**

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall keep the following monthly records:

- i. The number of hours that this unit operated; and
- ii. The rolling 12-month total of the number of hours that this unit operated.

- B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.

Authority for Requirement: 567 IAC 22.206(1)

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐**

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.206(1)"d"

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**Emission Point ID Number: EP-1b****Associated Equipment**

Emission Unit ID:	Blue 2a
Emission Unit Description:	Conditioning, Stage 1
Raw Material/Fuel:	Soybeans
Rated Capacity:	8 tons/hr
Control Equipment ID & Description:	M-11A Cyclone

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**Applicable Requirements****Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM

Emission Limit(s): 6.36 lbs/hr, 0.07 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 91-A-086

Pollutant: PM<sub>10</sub>

Emission Limit(s): 6.36 lbs/hr, 12.72 tons/yr

Authority for Requirement: 567 IAC 22.206(1)

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.

Reporting & Record keeping:

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep the following monthly records:

- i. The number of hours that this unit operated; and
- ii. The rolling 12-month total of the number of hours that this unit operated.

B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.

Authority for Requirement: 567 IAC 22.206(1)

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

## Emission Point ID Number: EP-1c

### Associated Equipment

Emission Unit ID:	Blue 2b
Emission Unit Description:	Conditioning, Stage 2 and Stage 3
Raw Material/Fuel:	Soybeans
Rated Capacity:	8 tons/hr
Control Equipment ID & Description:	M-12A Cyclone, M-13A Cyclone

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### Applicable Requirements

#### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM from M-12A Cyclone

Emission Limit(s): 4.77 lbs/hr, 0.07 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 91-A-087

Pollutant: PM from M-13A Cyclone

Emission Limit(s): 4.77 lbs/hr, 0.07 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 91-A-088

Pollutant: PM<sub>10</sub> from EP1c

Emission Limit(s): 4.77 lbs/hr, 9.54 tons/yr

Authority for Requirement: 567 IAC 22.206(1)

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.

**Reporting & Record keeping:**

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep the following monthly records:

- i. The number of hours that this unit operated; and
- ii. The rolling 12-month total of the number of hours that this unit operated.

B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.

Authority for Requirement: 567 IAC 22.206(1)

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

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**Emission Point ID Number: EP-2a****Associated Equipment**

Emission Unit ID:	T-8, C-13, M-36
Emission Unit Description:	Grain Receiving – Surge Tank, Conveying and Screening
Raw Material/Fuel:	Soybeans
Rated Capacity:	8 tons/hr
Control Equipment ID & Description:	M-51A Baghouse

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**Applicable Requirements****Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM<sub>10</sub>

Emission Limit(s): 2.60 lbs/hr

Authority for Requirement: Iowa DNR Construction Permit 91-A-093-S2

Pollutant: PM<sub>10</sub>

Emission Limit(s): 5.2 tons/year

Authority for Requirement: 567 IAC 22.206(1)

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.
- B. The control equipment shall be operated and maintained according to the manufacturer's instructions.

#### **Reporting & Record keeping:**

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall keep the following monthly records:
  - i. The number of hours that this unit operated; and
  - ii. The rolling 12-month total of the number of hours that this unit operated.
- B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.
- C. The permittee shall maintain records on all maintenance performed on the control equipment.

Authority for Requirement: 567 IAC 22.206(1)

### **Emission Point Characteristics**

*This emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground)	42 Feet
Discharge Style	Vertical, unobstructed
Stack Opening, (inches, dia.)	10 inches
Exhaust Temperature (°F)	86° F
Exhaust Flowrate (scfm)	3040 scfm
Authority for Requirement	IDNR Construction Permit 91-A-093-S3

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☒ No ☐

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.206(1)"d"

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**Emission Point ID Number: EP-2b****Associated Equipment**

Emission Unit ID:	Pink 1
Emission Unit Description:	Cracking and Dehulling
Raw Material/Fuel:	Soybeans
Rated Capacity:	8 tons/hr
Control Equipment ID & Description:	M-17A Cyclone

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**Applicable Requirements****Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM

Emission Limit(s): 2.54 lbs/hr

Authority for Requirement: Iowa DNR Construction Permit 91-A-089-S1

Pollutant: PM<sub>10</sub>

Emission Limit(s): 2.54 lbs/hr, 5.08 tons/yr

Authority for Requirement: 567 IAC 22.206(1)

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.

Reporting & Record keeping:

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep the following monthly records:

- i. The number of hours that this unit operated; and
- ii. The rolling 12-month total of the number of hours that this unit operated.

B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.

Authority for Requirement: 567 IAC 22.206(1)

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐**

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.206(1)"d"

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**Emission Point ID Number: EP-2c****Associated Equipment**

Emission Unit ID:	Pink 4
Emission Unit Description:	Gravity Separation
Raw Material/Fuel:	Soybeans
Rated Capacity:	8 tons/hr
Control Equipment ID & Description:	M-52A Cyclone

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**Applicable Requirements****Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM

Emission Limit(s): 1.48 lbs/hr, 0.07 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 91-A-094

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.48 lbs/hr, 2.96 tons/yr

Authority for Requirement: 567 IAC 22.206(1)

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.

Reporting & Record keeping:

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep the following monthly records:

- i. The number of hours that this unit operated; and
- ii. The rolling 12-month total of the number of hours that this unit operated.

B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.

Authority for Requirement: 567 IAC 22.206(1)

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

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**Emission Point ID Number: EP-2d****Associated Equipment**

Emission Unit ID:	Pink 2
Emission Unit Description:	Conditioning
Raw Material/Fuel:	Soybeans
Rated Capacity:	8 tons/hr
Control Equipment ID & Description:	M-19A Cyclone

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**Applicable Requirements****Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM

Emission Limit(s): 1.27 lbs/hr, 0.07 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 91-A-090

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.27 lbs/hr, 2.54 tons/yr

Authority for Requirement: 567 IAC 22.206(1)

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.

Reporting & Record keeping:

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep the following monthly records:

- i. The number of hours that this unit operated; and
- ii. The rolling 12-month total of the number of hours that this unit operated.

B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.

Authority for Requirement: 567 IAC 22.206(1)

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

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**Emission Point ID Number: EP-2e****Associated Equipment**

Emission Unit ID:	Pink 3
Emission Unit Description:	Dehulling/ Aspirator
Raw Material/Fuel:	Soybeans
Rated Capacity:	8 tons/hr
Control Equipment ID & Description:	M-22A Cyclone

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**Applicable Requirements****Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM<sub>10</sub>

Emission Limit(s): 2.65 lbs/hr

Authority for Requirement: Iowa DNR Construction Permit 91-A-091-S2

Pollutant: PM<sub>10</sub>

Emission Limit(s): 5.3 tons/year

Authority for Requirement: 567 IAC 22.206(1)

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.

- B. The control equipment shall be operated and maintained according to the manufacturer's instructions.

**Reporting & Record keeping:**

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep the following monthly records:

- i. The number of hours that this unit operated; and
- ii. The rolling 12-month total of the number of hours that this unit operated.

- B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.

- C. The permittee shall maintain records on all maintenance performed on the control equipment.

Authority for Requirement: 567 IAC 22.206(1)

**Emission Point Characteristics**

*This emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground)	42 Feet
Discharge Style	Vertical, unobstructed
Stack Opening, (inches, dia.)	14 inches
Exhaust Temperature (°F)	88° F
Exhaust Flowrate (scfm)	3100 scfm
Authority for Requirement	IDNR Construction Permit 91-A-091-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐**

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.206(1)"d"

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### **Emission Point ID Number: EP-3**

#### Associated Equipment

Emission Unit ID:	M-24
Emission Unit Description:	Soybeans Dryer-Cooler
Raw Material/Fuel:	Soybeans
Rated Capacity:	6.5 tons/hr
Control Equipment ID & Description:	M-26A, M-27A, M-32A, M-33A, M-28A, M-29A Cyclones

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### **Applicable Requirements**

#### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.0 lbs/hr

Authority for Requirement: Iowa DNR Construction Permit 95-A-123-S2

Pollutant: PM<sub>10</sub>

Emission Limit(s): 2.0 tons/year

Authority for Requirement: 567 IAC 22.206(1)

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.

**Reporting & Record keeping:**

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall keep the following monthly records:

- i. The number of hours that this unit operated;
- ii. The rolling 12-month total of the number of hours that this unit operated;
- iii. The amount of soybeans processed (tons); and
- iv. The rolling 12-month total of the amount of soybeans processed.

- B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.

- C. The control equipment shall be operated and maintained according to the manufacturer's instructions.

- D. If the annual throughput through this emissions unit exceeds 6000 tons in any rolling 12-month period, the permittee shall conduct a stack test in accordance with the monitoring requirements below.

Authority for Requirement: 567 IAC 22.206(1)

**Emission Point Characteristics**

*This emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground)	45 Feet
Discharge Style	Vertical, unobstructed
Stack Opening, (inches, dia.)	44 inches
Exhaust Temperature (°F)	97° F
Exhaust Flowrate (scfm)	26373 scfm
Authority for Requirement	IDNR Construction Permit 95-A-123-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Stack Testing:**

Pollutant:	PM <sub>10</sub>
Stack Test to be Completed by:	60 days after exceeding annual production of 6000 tons of soybeans processed
Test Method:	40 CFR Part 51, Appendix M, 201A with 202
Test Run Time:	4 hours
Authority for Requirement:	567 IAC 206(1)"d"

*The owner of this equipment or his authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the tests shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐**

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.206(1)"d"

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## **Emission Point ID Number: EP-4**

### Associated Equipment

Emission Unit ID:	T-2A, T-2B, T-2E, T-2F
Emission Unit Description:	Grain Receiving Tanks
Raw Material/Fuel:	Soybeans
Rated Capacity:	8 tons/hr
Control Equipment ID & Description:	M-2A Baghouse – vents inside

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### **Applicable Requirements**

#### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)“d”

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM

Emission Limit(s): 0.60 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 91-A-101-S1

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.60 lbs/hr

Authority for Requirement: Iowa DNR Construction Permit 91-A-101-S1

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.2 tons/year

Authority for Requirement: 567 IAC 22.206(1)

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.
- B. The control equipment shall be operated and maintained according to the manufacturer's instructions.

**Reporting & Record keeping:**

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall keep the following monthly records:
  - i. The number of hours that this unit operated; and
  - ii. The rolling 12-month total of the number of hours that this unit operated.
- B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.
- C. The permittee shall maintain records on all maintenance performed on the control equipment.

Authority for Requirement: 567 IAC 22.206(1)

**Emission Point Characteristics**

*This emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground)	*
Discharge Style	*
Stack Opening, (inches, dia.)	8 inches
Exhaust Temperature (°F)	70° F
Exhaust Flowrate (scfm)	1000 scfm
Authority for Requirement	IDNR Construction Permit 91-A-101-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

\* Unit vents inside the plant.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

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**Emission Point ID Number: EP-5****Associated Equipment**

Emission Unit ID:	M-36
Emission Unit Description:	Aspirator Separator
Raw Material/Fuel:	Soybeans
Rated Capacity:	8 tons/hr
Control Equipment ID & Description:	M-60 Baghouse

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**Applicable Requirements****Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.0 lbs/hr

Authority for Requirement: Iowa DNR Construction Permit 95-A-121-S1

Pollutant: PM<sub>10</sub>

Emission Limit(s): 2.0 tons/year

Authority for Requirement: 567 IAC 22.206(1)

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.

Reporting & Record keeping:

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep the following monthly records:

- i. The number of hours that this unit operated; and
- ii. The rolling 12-month total of the number of hours that this unit operated.

B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.

Authority for Requirement: 567 IAC 22.206(1)

### **Emission Point Characteristics**

*This emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground)	45 Feet
Discharge Style	Vertical, unobstructed
Stack Opening, (inches, dia.)	12 inches
Exhaust Temperature (°F)	70° F
Exhaust Flowrate (scfm)	2400 scfm
Authority for Requirement	IDNR Construction Permit 95-A-121-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐**

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.206(1)"d"

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**Emission Point ID Number: EP-6****Associated Equipment**

Emission Unit ID:	Heaters
Emission Unit Description:	Building Space Heaters
Raw Material/Fuel:	Natural Gas
Rated Capacity:	6.1 MMBTU/hr (total heat input)
Control Equipment ID & Description:	None

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**Applicable Requirements****Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/MMBTU heat input

Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 parts per million, by volume

Authority for Requirement: 567 IAC 23.3"e"

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.06 lbs/hr and 0.25 ton/year

Authority for Requirement: 567 IAC 22.206(1)

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

A. These emissions units are permitted to burn natural gas only.

Reporting & Record keeping:

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

- A. No recordkeeping is required for this emissions unit. The  $PM_{10}$  limit of 0.25 ton per year is based on the hourly  $PM_{10}$  limit multiplied by 8760 hours per and divided by 2000. The hourly  $PM_{10}$  limit is based on the AP-42 emission factor for natural gas combustion (Table 1.4-1, 1998 edition), multiplied by a factor of 1.25.

Authority for Requirement: 567 IAC 22.206(1)

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.206(1)"d"

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## **Emission Point ID Number: EP-8**

### Associated Equipment

Emission Unit ID:	M-23B
Emission Unit Description:	Soybean Flaking/Rolling
Raw Material/Fuel:	Soybeans
Rated Capacity:	8 tons/hr
Control Equipment ID & Description:	D-23 Baghouse – vents inside

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### **Applicable Requirements**

#### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)“d”

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.38 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 96-A-809-S1

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.76 ton/year

Authority for Requirement: 567 IAC 22.206(1)

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.

- B. The control equipment shall be operated and maintained according to the manufacturer's instructions.

**Reporting & Record keeping:**

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep the following monthly records:

- i. The number of hours that this unit operated; and
- ii. The rolling 12-month total of the number of hours that this unit operated.

- B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.

- C. The permittee shall maintain records on all maintenance performed on the control equipment.

Authority for Requirement: 567 IAC 22.206(1)

**Emission Point Characteristics**

*This emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground)	*
Discharge Style	*
Stack Opening, (inches, dia.)	8 inches
Exhaust Temperature (°F)	70° F
Exhaust Flowrate (scfm)	1500 scfm
Authority for Requirement	IDNR Construction Permit 96-A-809-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

\* Unit vents inside the plant.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

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## **Emission Point ID Number: EP-9**

### Associated Equipment

Emission Unit ID:	P1
Emission Unit Description:	Fluid Bed Toaster
Raw Material/Fuel:	Soybeans
Rated Capacity:	0.15 ton/hr
Control Equipment ID & Description:	P1 Cyclone

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### **Applicable Requirements**

#### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)"d"

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM

Emission Limit(s): 1.0 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 04-A-378-S1

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.0 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 04-A-378-S1

Pollutant: PM<sub>10</sub>

Emission Limit(s): 2.0 ton/year

Authority for Requirement: 567 IAC 22.206(1)

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.

**Reporting & Record keeping:**

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall keep the following monthly records:

- i. The number of hours that this unit operated; and
- ii. The rolling 12-month total of the number of hours that this unit operated.

- B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.

Authority for Requirement: 567 IAC 22.206(1)

**Emission Point Characteristics**

*This emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground)	14.5 Feet
Discharge Style	Horizontal
Stack Opening, (inches, dia.)	36 inches
Exhaust Temperature (°F)	70° F
Exhaust Flowrate (scfm)	10,326 scfm
Authority for Requirement	IDNR Construction Permit 04-A-378-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

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**Emission Point ID Number: EP-9a****Associated Equipment**

Emission Unit ID:	P2
Emission Unit Description:	Fluid Bed Cooler
Raw Material/Fuel:	Soybeans
Rated Capacity:	0.15 ton/hr
Control Equipment ID & Description:	P2 Cyclone, Fabric Filter – vents inside

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**Applicable Requirements****Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)“d”

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.96 lb/hr and 1.92 ton/year

Authority for Requirement: 567 IAC 22.206(1)

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.

**Reporting & Record keeping:**

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep the following monthly records:

- i. The number of hours that this unit operated; and
- ii. The rolling 12-month total of the number of hours that this unit operated.

B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.

C. The hourly PM<sub>10</sub> limit of 0.96 lb/hr is based on the allowable emission rate of 0.1 gr/scf multiplied by the exhaust flow rate of 1120 standard cubic feet per minute.

Authority for Requirement: 567 IAC 22.206(1)

**Monitoring Requirements**

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

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**Emission Point ID Number: EP-10****Associated Equipment**

Emission Unit ID:	CF 1
Emission Unit Description:	Packaging Equipment and Coveyors
Raw Material/Fuel:	Soybeans
Rated Capacity:	8 tons/hr
Control Equipment ID & Description:	M-70 Baghouse – vents inside

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**Applicable Requirements****Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.41 lbs/hr and 0.82 tons/year

Authority for Requirement: 567 IAC 22.206(1)

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.

Reporting & Record keeping:

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep the following monthly records:

- i. The number of hours that this unit operated; and
- ii. The rolling 12-month total of the number of hours that this unit operated.

B. The permittee shall submit reports that identify all exceedances of the rolling 12-month operating hour limit. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.

C. The hourly PM<sub>10</sub> limit of 0.41 lb/hr is based on the requested limit of 0.01 gr/scf multiplied by the exhaust flow rate of 4725 standard cubic feet per minute.

Authority for Requirement: 567 IAC 22.206(1)

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

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## Emission Point ID Number: EP-11

### Associated Equipment

Emission Unit ID:	BS 1
Emission Unit Description:	Boiler <sup>(1)</sup>
Raw Material/Fuel:	Natural Gas, propane
Rated Capacity:	12.5 MMBTU/hr
Control Equipment ID & Description:	None

<sup>(1)</sup>This source is subject to the New Source Performance Standard (NSPS) for Industrial-Commercial-Institutional Small Steam Generating Units (40 CFR 60 Dc; 567 IAC 23.1(2)“III”).

Because the unit is restricted to burning only natural gas, the potential sulfur dioxide emission rate will be below 0.32 lb/MMBTU heat input. Therefore, in accordance with 60.48c (g), the record keeping is reduced to monthly.

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### Applicable Requirements

#### Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)“d”

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/MMBTU heat input

Authority for Requirement: 567 IAC 23.3(2)“b”

Pollutant: Sulfur dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 parts per million, by volume

Authority for Requirement: 567 IAC 23.3“e”

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.12 lbs/hr and 0.53 ton/year

Authority for Requirement: 567 IAC 22.206(1)

#### Operational Limits & Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

A. This emissions unit is permitted to burn natural gas or propane only.

**Reporting & Record keeping:**

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep monthly records on the identification and the amount of fuels burned.<sup>(1)</sup>

Authority for Requirement: 567 IAC 22.206(1)  
<sup>(1)</sup> §60.48c(g)

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

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**Emission Point ID Number: EP-12****Associated Equipment**

Emission Unit ID:	T-2C & T-2D
Emission Unit Description:	Storage Bins
Raw Material/Fuel:	Soybeans
Rated Capacity:	0.5 ton/hr – fill rate
Control Equipment ID & Description:	None

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**Applicable Requirements****Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.020 lbs/hr and 0.04 ton/year

Authority for Requirement: 567 IAC 22.1(2)"w"

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to operate a maximum of 4000 hours in any rolling 12-month period.

**Reporting & Record keeping:**

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall keep the following monthly records:

- i. The number of hours that this unit operated; and

ii. The rolling 12-month total of the number of hours that this unit operated.

B. The permittee shall maintain a copy of the small unit justification document on-site as required by IAC 22.1(2)"w"(3).

Authority for Requirement: 567 IAC 22.206(1)

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

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**Emission Point ID Number: EP-13****Associated Equipment**

Emission Unit ID:	EL
Emission Unit Description:	East Truck Loadout
Raw Material/Fuel:	Soybean splits and hulls
Rated Capacity:	30 tons per hour
Control Equipment ID & Description:	None

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**Applicable Requirements****Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: PM<sub>10</sub> and PM

Emission Limit(s): 0.54 ton/year

Authority for Requirement: 567 IAC 22.206(1)

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. This emissions unit is permitted to handle through the truck load out a maximum of 2000 tons of soybeans and/or hulls in any rolling 12-month period.

**Reporting & Record keeping:**

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep the following monthly records:

- i. The amount of soybeans and/or hulls that were loaded out; and
- ii. The rolling 12-month total of the amount of soybeans and/or hulls that were loaded out.

B. Compliance with the annual PM<sub>10</sub>/PM limit is based on multiplying the annual throughput of material loaded out by an emission factor of 0.54 lb PM<sub>10</sub>/PM per ton of material. The emission

factor of 0.54 lb PM<sub>10</sub>/PM per ton is based on the emission factor in AP-42, Section 9.11.1 for meal loadout, multiplied by a factor of 2.

Authority for Requirement: 567 IAC 22.206(1)

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

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**Emission Point ID Number: EP-14****Associated Equipment**

Emission Unit ID:	WL
Emission Unit Description:	West Truck Loadout
Raw Material/Fuel:	Soybeans
Rated Capacity:	30 tons per hour
Control Equipment ID & Description:	None

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**Applicable Requirements****Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: PM/ PM<sub>10</sub>

Emission Limit(s): 0.68 ton/year

Authority for Requirement: 567 IAC 22.206(1)

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

A.This emissions unit is permitted to handle through the truck load out a maximum of 5000 tons of soybeans in any rolling 12-month period.

Reporting & Record keeping:

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep the following monthly records:

- i. The amount of soybeans that were loaded out; and
- ii. The rolling 12-month total of the amount of soybeans that were loaded out.

B. Compliance with the annual PM/PM<sub>10</sub> limit is based on multiplying the annual throughput of material loaded out by an emission factor of 0.27 lb PM/PM<sub>10</sub> per ton of material. The emission factor of 0.27 lb PM/PM<sub>10</sub> per ton is based on the emission factor in AP-42, Table 9.9.1-1 for grain shipping into trucks, multiplied by a factor of 3.

Authority for Requirement: 567 IAC 22.206(1)

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

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**Emission Point ID Number: EP-15 and EP-16****Associated Equipment**

Emission Unit ID:	ERP, WRP
Emission Unit Description:	East and West Receiving Pits
Raw Material/Fuel:	Soybeans
Rated Capacity:	35 tons per hour – East Pit 30 tons per hour – West Pit
Control Equipment ID & Description:	None

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**Applicable Requirements****Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: PM/PM<sub>10</sub>

Emission Limit(s): 6.0 ton/year

Authority for Requirement: 567 IAC 22.206(1)

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

A. The total amount of soybeans received in the East and West receiving pits shall not exceed 8000 tons of soybeans in any rolling 12-month period.

Reporting & Record keeping:

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep the following monthly records:

- i. The total amount of soybeans that were received in the East and West pits; and
- ii. The rolling 12-month total of the amount of soybeans that were received in the East and West pits.

B. Compliance with the annual PM/PM<sub>10</sub> limit is based on multiplying the annual throughput of material loaded out by an emission factor of 1.5 lbs PM/PM<sub>10</sub> per ton of material. The emission

factor of 1.5 lbs PM/PM<sub>10</sub> per ton is based on the emission factor in AP-42, Table 9.11.1-1 for soybeans receiving, multiplied by a factor of 10.

Authority for Requirement: 567 IAC 22.206(1)

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

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## **Emission Point ID Number: EP-17 and EP-18**

### Associated Equipment

Emission Unit ID:	E-1 and W-1
Emission Unit Description:	Surge Storage Bins
Raw Material/Fuel:	Soybeans
Rated Capacity:	30 tons/hr
Control Equipment ID & Description:	None

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### **Applicable Requirements**

#### **Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: 567 IAC 23.4(7)

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.20 lbs/hr and 0.161 ton/year

Authority for Requirement: 567 IAC 22.1(2)"w"

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

- A. The maximum amount of soybeans that can be loaded into the two tanks shall not exceed 8000 tons in any rolling 12-month period.

#### **Reporting & Record keeping:**

*The following records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the IDNR. Records shall be legible and maintained in an orderly manner.*

A. The permittee shall keep the following monthly records:

- i. The total amount of soybeans that were loaded into the tanks; and

- ii. The rolling 12-month total of the amount of soybeans that were loaded into the tanks.

B. The permittee shall maintain a copy of the small unit justification document on-site as required by IAC 22.1(2)"w"(3).

Authority for Requirement: 567 IAC 22.206(1)

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.206(1)"d"

## IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code (IAC) chapter 22.

### A. Eligibility

1. Sources covered by this permit must meet the eligibility requirements for a voluntary operating permit as described in 567 IAC 22.201.

2. If the issuance of a construction permit acts to make the source no longer eligible for a voluntary operating permit, then the source shall, in accordance with subparagraph 22.105(1)"a"(6) not operate without a Title V operating permit, and the source shall be subject to enforcement action for operating without a Title V operating permit. 567 IAC 22.207(1)

### B. Duty To Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. 567 IAC 22.203(1)"c"

### C. Access to the Permit

This voluntary operating permit is to be kept at the location of the source. 567 IAC 22.206(1)"h"

### D. Requirement to Apply for a Title V Permit

The permittee may be required to apply for and obtain a Title V operating permit prior to the expiration of this voluntary operating permit. The circumstances under which this may occur are: the source becomes subject to a newly promulgated standard or other requirement pursuant to 567 IAC 22.101 which requires the permittee to apply for a Title V permit; issuance of construction permits which make the source no longer eligible for a voluntary operating permit pursuant to 567 IAC 22.207; or the deferment period for non-major sources pursuant to subrule 22.101(2) ends.

Applications for a Title V permit shall be submitted within 12 months of the date a Title V permit is required. 567 IAC 22.101(2), 567 IAC 22.201(2)"b"

### E. Permit Renewal

1. Sources covered by a voluntary operating permit shall reapply for a voluntary operating permit at least 6 months but not more than 12 months prior to the date of expiration of the permit. 567 IAC 22.203(1)"a"(2)

Requirements pertaining to making a voluntary operating permit application are contained in 567 IAC 22.203.

2. Each application for renewal of a voluntary operating permit shall include a list of construction permits issued during the term of the voluntary operating permit and shall state the effect of each of these construction permits on the conditions of the voluntary operating permit. Applications for renewal shall be accompanied by copies of all construction permits issued during the term of the voluntary operating permit. 567 IAC 22.207(2)

3. To be considered as complete, an application must provide all information required pursuant to subrule 22.203(2). 567 IAC 22.203(1)"b"

### F. Duty to Comply

1. The permittee must comply with all conditions of the voluntary operating permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination and revocation; and, for an immediate requirement to obtain a Title V operating permit. 567 IAC 22.206(1)"i"

2. All terms and conditions in the voluntary operating permit, including provisions to limit a source's potential to emit, are enforceable by the

administrator and citizens under the Act. 567 IAC 22.206(2)"b"(1)

3. Any terms and conditions included in the permit that are not required under the Act or under any of its applicable requirements shall be designated in the permit as not being federally enforceable. 567 IAC 22.206(2)"b"(2)

4. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. 567 IAC 22.206(1)"j"

#### **G. Certification Requirement for Related Documents**

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. 567 IAC 22.203(1)"d"

#### **H. Voluntary Operating Permit Fee**

Each source in compliance with a current voluntary operating permit shall be exempt from Title V operating permit fees. 567 IAC 22.204

#### **I. Inspection of Premises, Records, Equipment, Methods and Discharges**

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

- enter upon the permittee's premises where an emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and,

- sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements. 455B.103(4)

#### **J. Duty to Provide Information**

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for revoking or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit. 567 IAC 22.206(1)"m"

#### **K. Hazardous Release**

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity strength and toxicity of the substance, creates an immediate or potential danger to public health, safety or to the environment. A verbal report shall be made to the IDNR at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). 567 IAC Chapter 131-State Only

#### **L. Excess Emissions and Excess Emissions Reporting Requirements**

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of

excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

## 2. Excess Emissions Reporting.

a. *Oral Reporting of Excess Emissions.* An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the IDNR within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1) ) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

- the identity of the equipment or source operation from which the excess emission

originated and the associated stack or emission point;

- the estimated quantity of the excess emission;
- the time and expected duration of the excess emission;
- the cause of the excess emission;
- the steps being taken to remedy the excess emission; and,
- the steps being taken to limit the excess emission in the interim period.

b. *Written Reporting of Excess Emissions.* A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the IDNR within seven days of the onset of the upset condition, and shall include as a minimum the following:

- the identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point;
- the estimated quantity of the excess emission;
- the time and duration of the excess emission;
- the cause of the excess emission;
- the steps that were taken to remedy and to prevent the recurrence of the incident of excess emission;
- the steps that were taken to limit the excess emission; and,
- if the owner claims that the excess emission was due to malfunction, documentation to support this claim. 567 IAC 24.1(1) and 24.1(4)

3. Emergency Defense for Excess Emissions. For the purposes of a voluntary operating permit, an "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error. 567 IAC 22.206(2)"f"

#### **M. Notification Requirements for Sources That Become Subject to NSPS or NESHAP Regulations**

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. 567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)

#### **N. Duty to Obtain Construction Permits**

Unless exempted under 567 IAC 22.1(2), the permittee shall not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8 or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5.

#### **O. Suspension, Termination, and Revocation of Voluntary Operating Permits**

1. This permit may be modified, revoked, reopened, reissued, or terminated for cause. 567 IAC 22.208(1)

2. If the voluntary permit is suspended, terminated or revoked by the IDNR, the notice of such action shall be served on the applicant or permittee by certified mail, return receipt requested. The notice shall include a statement detailing the grounds for the action sought and the proceeding shall in all other respects comply with the requirements of rule 561-7.16(17A.455A). 567 IAC 22.208(2)

#### **P. Property Rights**

The permit does not convey any property rights of any sort, or any exclusive privilege. 567 IAC 22.206(1)"l"

#### **Q. Fugitive Emissions**

Fugitive Emissions from a source shall be included in the permit in the same manner as stack emissions, regardless of whether the source category in question is included in the list of sources contained in the definition of major source. 567 IAC 22.206(2)"a"

#### **R. Asbestos**

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when conducting any renovation or demolition activities at the facility. 567 IAC 23.1(3)"a" and 23.2

#### **S. Open Burning**

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. 567 IAC 23.2 except 23.2(3)"h"; 567 IAC 23.2(3)"h" - State Only

#### **T. Stratospheric Ozone and Climate Protection (Title VI) Requirements**

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.

b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.

c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.

d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.

d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)

e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives

Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

#### **U. Disclaimer**

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

#### **V. Prevention of Accidental Release: Risk Management Plan**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the plan shall be filed with all appropriate authorities by the deadline specified by EPA. *40 CFR 68*

#### **W. Facility Operation**

All equipment, facilities and systems covered under the terms and conditions of this Voluntary Operating Permit shall at all times be maintained in good working order and be operated in the manner consistent with the information provided in the application, manufacturer's recommended procedures, associated plans, and specifications. *567 IAC 24.2(1)*

#### **X. Severability**

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.206(1)"a"*

#### **Y. Credible Evidence**

As stated in 567 IAC 21.5 and also in 40 CFR Part 60.11(g), where applicable, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions specified in this permit or any provisions of 567 IAC Chapters 20 through 31.

**Z. Contacts List**

The owner shall send correspondence regarding this permit to the following to:

Mr. Douglas A. Campbell, Operating Permit Supervisor  
Air Quality Bureau  
Iowa Department of Natural Resources  
7900 Hickman Road, Suite 1  
Urbandale, IA 50322  
Telephone: (515) 281-8930  
Fax: (515) 242-5094

The owner shall send correspondence concerning stack testing to:

Stack Testing Coordinator  
Air Quality Bureau  
Iowa Department of Natural Resources  
7900 Hickman Road, Suite 1  
Urbandale, Iowa 50322  
Telephone: (515) 242-6001  
FAX: (515) 242-5127

The owner shall send reports and notifications to:

Compliance Unit Supervisor Air Quality Bureau Iowa Department of Natural Resources 7900 Hickman Road, Suite 1 Urbandale, IA 50322 Telephone: (515) 281-8448 Fax: (515) 242-5127	<b>DNR Field Office 4</b> 1401 Sunnyside Lane Atlantic, IA 50022 Phone: (712) 243-1934 Fax: (712) 243-6251
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